



## PATENT ABSTRACTS OF JAPAN

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**ITO JUNJI**(54) **EXHAUST GAS PURIFYING SYSTEM**

## (57) Abstract:

**PROBLEM TO BE SOLVED:** To provide an exhaust gas purifying device having an excellent purifying performance to a lean-burn exhaust gas concerned in low exhaust gas temp. and low HC/NOx ratio condition and capable of improving an NOx reduction purification efficiency.

**SOLUTION:** In a system using a catalyst for purifying oxygen-excess exhaust gas, an NOx adsorptive reducing catalyst capable of adsorbing NOx and also

capable of reducing the NOx at an NO2 forming temp. zone in which the reaction expressed by the following formula  $2\text{NO} + \text{O}_2 \rightarrow 2\text{NO}_2$  proceeds is used, and the concn. of hydrocarbons and/or carbon monoxide at the inlet of the NOx adsorptive reducing catalyst is varied at the NO2 forming temp. zone. A hydrocarbon adsorbable/releasable material is arranged on the upstream side of the exhaust gas passage and an NOx adsorbable/reducible material is arranged on its downstream side preferably.

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